



ELSEVIER

Computers and Electronics in Agriculture 15 (1996) 335-336

Computers
and electronics
in agriculture

Author index

Allen, C.J., <i>see</i> Bull, C.R. et al.	15
Aspinall, R.J., <i>see</i> Zhu, X. et al.	279
Baars, R.M.T., Solano, C., Baayen, M.T., Rojas, J. and 't Mannetje, L. MIS support for pasture and nutrition management of dairy farms in tropical countries	27
Baayen, M.T., <i>see</i> Baars, R.M.T. et al.	27
Bailey, B.J., <i>see</i> Chalabi, Z.S. et al.	1
Brandl, N. and Jørgensen, E. Determination of live weight of pigs from dimensions measured using image analysis	57
Buckley, D.J., <i>see</i> Pattey, E. et al.	303
Bull, C.R., <i>see</i> Zwiggelaar, R. and Bull, C.R.	89
Bull, C.R., McFarlane, N.J.B., Zwiggelaar, R., Allen, C.J. and Mottram, T.T. Inspection of teats by colour image analysis for automatic milking systems	15
Chalabi, Z.S., Bailey, B.J. and Wilkinson, D.J. A real-time optimal control algorithm for greenhouse heating	1
Desjardins, R.L., <i>see</i> Pattey, E. et al.	303
Geyer, M., <i>see</i> Herold, B. et al.	73
Hansson, P.-A. Rear axle suspensions with controlled damping on agricultural tractors	123
Healey, R.G., <i>see</i> Zhu, X. et al.	279
Herold, B., Truppel, I., Siering, G. and Geyer, M. A Pressure Measuring Sphere for monitoring handling of fruit and vegetables	73
Hess, T. A microcomputer scheduling program for supplementary irrigation	233
Holtfrerich, D.R., <i>see</i> Loh, D.K. et al.	323
Hsieh, Y.-T.C., <i>see</i> Loh, D.K. et al.	323
Hulzebosch, A.A., <i>see</i> Timmermans, A.J.M. and Hulzebosch, A.A.	41
Jørgensen, E., <i>see</i> Brandl, N. and Jørgensen, E.	57
Lamaker, E.J.J., <i>see</i> Lokhorst, C. and Lamaker, E.J.J.	215
Loh, D.K., Van Stipdonk, S.E.P., Holtfrerich, D.R. and Hsieh, Y.-T.C. Spatially constrained reasoning for the determination of wildlife foraging areas	323
Lokhorst, C. and Lamaker, E.J.J. An expert system for monitoring the daily production process in aviary systems for laying hens	215
Magliulo, V. Automatic scanning of multiple leaf chambers for gas exchange measurements	149
Marchant, J.A. Tracking of row structure in three crops using image analysis	161
McFarlane, N.J.B., <i>see</i> Bull, C.R. et al.	15
Mitchell, R.S., Sherlock, R.A. and Smith, L.A. An investigation into the use of machine learning for determining oestrus in cows	195
Mottram, T.T., <i>see</i> Bull, C.R. et al.	15

Noyman, Y. and Shmulevich, I.	
Ground surface sensing through plant foliage using an FM-CW radar	181
Pattey, E., Royds, W.G., Desjardins, R.L., Buckley, D.J. and Rochette, P.	
Application software for a data acquisition and control system for measuring atmospheric trace gas and energy fluxes	303
Perry, J.N.	
Simulating spatial patterns of counts in agriculture and ecology	93
Riley, J.R., <i>see</i> Smith, A.D. and Riley, J.R.	267
Rochette, P., <i>see</i> Pattey, E. et al.	303
Rojas, J., <i>see</i> Baars, R.M.T. et al.	27
Royds, W.G., <i>see</i> Pattey, E. et al.	303
Sherlock, R.A., <i>see</i> Mitchell, R.S. et al.	195
Shmulevich, I., <i>see</i> Noyman, Y. and Shmulevich, I.	181
Siering, G., <i>see</i> Herold, B. et al.	73
Smith, L.A., <i>see</i> Mitchell, R.S. et al.	195
Smith, A.D. and Riley, J.R.	
Signal processing in a novel radar system for monitoring insect migration	267
Solano, C., <i>see</i> Baars, R.M.T. et al.	27
't Mannetje, L., <i>see</i> Baars, R.M.T. et al.	27
Tari, F.	
A Bayesian Network for predicting yield response of winter wheat to fungicide programmes ..	111
Timmermans, A.J.M. and A.A. Hulzebosch,	
Computer vision system for on-line sorting of pot plants using an artificial neural network classifier	41
Truppel, I., <i>see</i> Herold, B. et al.	73
Van Stipdonk, S.E.P., <i>see</i> Loh, D.K. et al.	323
Verdenius, F.	
Managing product inherent variance during treatment	245
Wilkinson, D.J., <i>see</i> Chalabi, Z.S. et al.	1
Zhu, X., Aspinall, R.J. and Healey, R.G.	
ILUDSS: A knowledge-based spatial decision support system for strategic land-use planning ..	279
Zwiggelaar, R., <i>see</i> Bull, C.R. et al.	15
Zwiggelaar, R. and Bull, C.R.	
The VIIth International Conference on Sensors and their Applications: Relevance to the Agricultural Community (Meeting Report)	89



ELSEVIER

Computers and Electronics in Agriculture 15 (1996) 337-338

Computers
and electronics
in agriculture

Subject index

- Adaptive control 123
Aggregation 93
Artificial fruit 73
Association 93

Bayesian Networks 111
Body dimensions 57
BOReal Ecosystems Atmosphere Study 303

Cattle feeding 27
Cattle teat inspection 15
Cereals 161
Computer vision 41
Constraint satisfaction 245
Control 161
Costa Rica 27
Cuvette experiment 149

Dairy cow 195
Data acquisition and control system 303
Decision support system 215
Decision tree 245
Discriminant analysis 41

Eddy-accumulation 303
Eddy-correlation 303
Energy conservation 1
Environmental control 1
Expert system 215, 279, 323

Flight monitoring 267
Foliage 181
Fruit handling 73

Gas exchange measurement 149
Geographical information system 279
GIS 323
Greenhouse 1
Ground surface detection 181

Image analysis 57, 161

Image analysis, colour 15
Image processing 41
Infrared gas analysis 149
Insect migration 267
Insects 267
Integrated system 323
Irrigation 233
Irrigation scheduling 233

Knowledge-based spatial decision support system 279

Land-use planning 279
Laying hen 215
Learning by induction 245
Live weight 57

Machine learning 195
Management information system 27
Margin over feed costs 27
Mathematical model 1
Micrometeorology 303
Microwave 181
Milking parlour automation 15

Neural network 41, 245

Oestrus detection 195
Optimal control 1

Pattern recognition 41
Pig production 57
Pressure measuring sphere 73
Probabilistic inference 111
Production monitoring laying hen 215
Programmes 111

Quality control 245

Radar 267
Radar-Cross-Section 181

- Recipe design 245
- Regularity 93
- Remote sensing 181
- Robotics 161
- Row crops 161

- Semi-active suspension 123
- Sensor, electronic 89
- Sensor, optical 89
- Signal-processing 267
- Spatial Analysis by Distance Indices (SADIE) 93
- Spatial influence diagram 279
- Spatial simulation 93

- Standards egg production 215
- Sugar beet 161

- Trace gas flux 303
- Tractor, agricultural 123
- Tropical pasture 27

- Vegetable handling 73

- Water balance 233
- Weeds 161
- Winter wheat 111